

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/JP2004/011007

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
IPC 7 H01M4/02 H01M4/62 H01M10/40 H01M4/02 H01M10/40		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
IPC 7 H01M		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the International search (name of data base and, where practical, search terms used)		
EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, CHEM ABS Data		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 191 131 A (SHOWA DENKO KABUSHIKI KAISHA) 27 March 2002 (2002-03-27) page 2, paragraph 5 – paragraph 8 page 3, paragraph 23 page 5, paragraph 28 – paragraph 35 page 8, paragraph 72 – paragraph 74 page 11, paragraph 110 – page 12, paragraph 112; example 8; tables 3,4  ----- -/-	1-10, 12, 30-37, 39
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.		<input checked="" type="checkbox"/> Patent family members are listed in annex.
<b>* Special categories of cited documents :</b>		
*A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the International filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the International filing date but later than the priority date claimed		
*T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family		
Date of the actual completion of the International search	Date of mailing of the International search report	
2 May 2005	10/05/2005	
Name and mailing address of the ISA European Patent Office, P.O. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016		Authorized officer  Gamez, A

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 194 099 B1 (GERNOV YORDAN M ET AL) 27 February 2001 (2001-02-27) column 2, line 60 - column 3, line 15 column 4, line 43 - column 5, line 8 column 6, line 12 - line 29 column 7, line 11 - line 37 column 8, line 24 - line 43 column 10, line 66 - line 20 column 10, line 31 - line 41 examples 1-9	1-6,8,9, 28,30-39
X	FRYSZ C A ET AL: "Carbon filaments and carbon black as a conductive additive to the manganese dioxide cathode of a lithium electrolytic cell" JOURNAL OF POWER SOURCES, ELSEVIER SEQUOIA S.A. LAUSANNE, CH, vol. 58, no. 1, 1996, pages 41-54, XP004044538 ISSN: 0378-7753 page 41, right-hand column, paragraph 2 - page 42, left-hand column, paragraph 1 page 42, left-hand column, paragraph 4 - right-hand column, paragraph 1 page 44, left-hand column, paragraph 2 - paragraph 4 page 45, right-hand column, paragraph 3 page 46; table 1	1,2,5,6, 8,21,24, 30-39
X	PATENT ABSTRACTS OF JAPAN vol. 016, no. 441 (E-1264), 14 September 1992 (1992-09-14) -& JP 04 155776 A (MATSUSHITA ELECTRIC IND CO LTD), 28 May 1992 (1992-05-28) cited in the application abstract	1,2,5, 10,30-39
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X	EP 0 858 119 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD) 12 August 1998 (1998-08-12) column 3, line 7 - line 32 column 4, line 38 - line 44 column 5, line 3 - line 9 column 9, line 30 - column 10, line 8; example 2	1,10, 30-39
A	EP 1 265 301 A (MITSUI MINING CO., LTD) 11 December 2002 (2002-12-11) page 9, paragraph 119	1-39
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A	US 5 437 943 A (FUJII ET AL) 1 August 1995 (1995-08-01) column 4, line 47 - line 62 column 6, line 44 - column 7, line 2 column 8, line 36 - line 62 column 11, line 51 - column 12, line 6	1-39
P, X	US 2004/043293 A1 (NAGATA MIKITO ET AL) 4 March 2004 (2004-03-04) page 2, paragraph 22 - paragraph 27 page 2, paragraph 29	1,5-8, 18, 30-39
A	& EP 1 237 213 A (SANYO ELECTRIC CO., LTD) 4 September 2002 (2002-09-04) page 3, paragraph 10 - paragraph 12 page 4, paragraph 25 - page 5, paragraph 27 page 5, paragraph 32 page 6; table 1	1-39
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A	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 11, 30 September 1999 (1999-09-30) & JP 11 147989 A (SHOWA DENKO KK), 2 June 1999 (1999-06-02) cited in the application abstract	1-39

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